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Multi-carrier telecommunication system with power reduction means

Inventor: VANZIELEGHEM ETIENNE [BE] ; DEFOORT FRANK CYRIEL MICHEL [BE] (+1)

Applicant: ALSTHOM CGE ALCATEL [FR]

EC: H04L27/26M2; H04L27/26M3; (+2)

IPC: ***H04L27/26;*** **H04L27/26;** (IPC1-7): H04L27/26

Publication info: **EP0883269 (A1)** — 1998-12-09

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Multi-carrier telecommunication system with power reduction means

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Publication date: 1998-12-09
Inventor(s): VANZIELEGHEM ETIENNE [BE]; DEFOORT FRANK CYRIEL MICHEL [BE]; REUSENS PETER PAUL FRANS [BE]
Applicant(s): ALSTHOM CGE ALCATEL [FR]
Classification:
- international: ***H04L27/26;*** **H04L27/26;** (IPC1-7): H04L27/26
- European: H04L27/26M2; H04L27/26M3; H04L27/26M5C1; H04L27/26M5C3
Application number: EP19970401210 19970602
Priority number(s): EP19970401210 19970602

Also published as:
EP0883269 (B1)
IL124552 (A)
ES2224211 (T3)
DE69730951 (T2)
CA2237091 (A1)

Cited documents:
EP0753947 (A1)
EP0753948 (A1)
US5610945 (A)

Abstract of **EP 0883269 (A1)**

A telecommunication transmitter (TU) for a multi-carrier transmission system of the Digital Subscriber Line ÄDSLÜ type and which includes a coding circuit (MMC) able to generate "symbols" derived from carriers (C1-Cn) modulated by incoming data, and a line driver circuit (LDC) to amplify these symbols. When idle data are received, the power dissipated in the transmitter is reduced because the symbols are then merely derived from a few or even a single carrier (the "pilot tone") instead as from all the available carriers. The power dissipated is even more reduced because the line driver circuit comprises the parallel connection of a high voltage but low efficiency (LL) and a lower voltage but higher performant (LH) line amplifier. The higher performant, and thus less power consuming, amplifier (LH) is used when idle data are received at the input (IN).; In a variant, there is only one line amplifier of which the quiescent current is controlled in function of the data traffic. In another variant, the number of carriers used by the coding circuit (MMC) is a function of the mean traffic of effective data received.

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[0045] Thus, the main idea with the present invention is to **scramble** a bit stream, represented by symbols from the **symbol alphabet** M, comprising user **data ...**
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5745522, Randomizer for byte-wise **scrambling** of **data**, Heegard, 380/46 **.....** This rotation has the property that it preserves the **power level** of the **...** symbols using a suitable pseudo-random algorithm operating on the **symbol alphabet**. **...**
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Voice and **data** may also be identified. The **power level** may be determined by **....** The Walsh codes are used to identify a **data symbol alphabet**, **....** In particular, the forward channel uses a long PN code sequence to **scramble** the **data**, **...**
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Is multiuser detection beneficial to mixed service UMTS networks ...
Here, we apply short **scrambling** codes with length being equal to that of one **....** of the maximum-likelihood detector [1] if the **symbol alphabet** is not restricted **.....** If we compare the absolute **power level** of **data** and voice users (Fig. **...**
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Future wireless systems are required to provide high **data ...** is the **power level** with which a terminal shall be **....** where A denotes the **symbol alphabet** with E **...** sity) which applies **scrambling** to average-out the interference **...**
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employing long **scrambling** code is presented and compared to known ones. These receivers equalize the channel and, thus, **...** ment to enhance the downlink **data** rates beyond 10 Mbps. The **....** is **symbol alphabet**) contains the transmitted symbols. Noise **....** channels can be assumed to be smaller than the **power level ...**
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Pilot pollution interference cancellation in CDMA systems
nificant **power level** contributes to the pilot pollution interference. Consequently, the serving BS increases its power **.....** will be multiplied by the **scrambling** codes for those **....** encoder, M is the size of the **data symbol alphabet ...**
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property that it preserves the **power level** of the individual symbols but randomizes the symbol sequence. By rotating the symbols in this manner, the **data ...**
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[PDF] Multiuser Space–Time Algorithms for Synchronization, Channel ...
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for synchronization, channel estimation, and **data** detection in **...** coding the broadcast channel (BCH) **data**, and estimating the **power level** for each detected BS. **....** tions yields the **scrambling** codes, midambles, and time offsets **.....** the QPSK **symbol alphabet**, and F. MMSE is the 13 · UK × **...**
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complex **symbol alphabet** set. Y i complex symbols from **data** alphabet i = 1... I **.....** With the **scrambling** it would not matter if the **.....** a transmitted **power level** E g . This is a trust-region-subproblem as occurs in nonlinear opti- **...**
www.ee.ed.ac.uk/~sg/Research/thesis.pdf - Similar pages -
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[PDF] THESE Doctorat d'Electronique Thomas SÄLZER Transmission ...
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different **scrambling** codes in the cells, which considerably facilitates the cell planning task **.....** the pilot positions cannot be used for **data** transmission and they consume **.....** **Symbol alphabet**. QPSK. Channel coding not considered. **.....** 'Method of allocating transmission **power level** to pilot symbols used for **...**
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Forward and reverse link capacity determination Number:7466682 ...
The Walsh codes are used to identify a **data symbol alphabet**, **....** In particular, the forward channel uses a long PN code sequence to **scramble** the **data**, **...**
www.linkgrinder.com/Patents/Forward_and_rev_7466682.html - 85k - Cached - Similar pages -

System and method for communication using noise - US 6408019
operating logic stored in the memory to modulate a predefined base **data** signal **.....** forexample, "randomizes" the **power level** to simulate fading (US Pat. **...**
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operating logic stored in the memory to modulate a predefined base **data** signal **.....** for example, "randomizes" the **power level** to simulate fading (US Pat. **...**
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Wireless Communication Technologies New Multimedia Systems
spacetime high **data** transfer using wireless communication **.....** receivers) over which the mean **power level** of the channel is undisturbed by large-scale **.....** as is the modulation **symbol alphabet**, is the received amplitude of user k in **.....** The **scramble** codes used in 276 WIRELESS TECHNOLOGIES FOR THE 21ST CENTURY **...**
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[PDF] Interference Analysis and Reduction for Wireless Systems
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discussed in this section, wireless **data** systems and WLANs are also very **.....** is based on **scrambling** each OFDM symbol with different **scrambling** sequences and selecting the **.....** In either case, the **power level** directly affects the C/I. For this case, an **.....**

restricting it to the transmit **symbol alphabet**. **...**
cict.inatel.br/nova2/docentes/dayan/Electronic_Library/e.../Interference%20Analysis%20%20and%20Reduction%20for%... - Similar pages -

[PDF] ON MIMO SYSTEMS AND ADAPTIVE ARRAYS FOR WIRELESS COMMUNICATION ...
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data throughput or to decrease the transmission power. **.....** orthogonal **scrambling** codes, to obtain the property in (2.56), and then be trans- **.....** If a **symbol alphabet** with non-equal powered symbols are used, such as 64QAM, **.....** The results in the previous section showed that the IMD **power level** is dependent **...**
www.diva-portal.org/diva/getDocument?urn_nbn_se_uu_diva-2604-1__fulltext.pdf - Similar pages -
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Apparatus and method for trellis encoding **data** for transmission in **...**
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eBook-turbo and Trellis Coding
random signals-detection estimation and **data** analysis k. san shanmugan a. breipohl **.....** MULTIPLE ANTENNA CHANNELS (MIMO CHANNELS) 45 **Power level**: Difference m – N0 **.....** since such a T (D) will simply **scramble** the input sequences {u(D)}, **.....** and it is mapped into symbols from an M = 2m -ary **symbol alphabet** X **...**
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interleaver is often employed to **scramble** the transmitted signal in the time-domain so that **....** The designed system can also allow for multiple **data** rates, **...**
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8.5.1.3 Estimating the Customer **Data**/Message Rate / 107. 8.5.1.4 Application Variables **....** When Wireless **Data** Succeeds, It Will be a Great Business! / 334 **...**
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In a digital system electrical or optical signals employed for **data** transmission must **.....** where A is the **symbol alphabet**. An example of eye diagram is shown in Fig. **.....** An

example of the specified **power level** limits is given in Fig. **.....** to account for the various signal **scrambling** and spreading operations. **...**
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1. **Peak power reduction scheme based on subcarrier scrambling for MC-C**
Choi, K.; Kang, K.; Kim, S.;
Communications, IEE Proceedings-
Volume 151, Issue 1, Feb 2004 Page(s):39 - 43
Digital Object Identifier 10.1049/ip-com:20040407
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2. **Peak power reduction scheme based on subcarrier scrambling for MC-C**
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3. **Experiments on three-step fast cell search algorithm employing commo OFCDM broadband packet wireless access in forward link**
Tanno, M.; Higuchi, K.; Atarashi, H.; Sawahashi, M.;
Vehicular Technology Conference, 2004. VTC2004-Fall. 2004 IEEE 60th
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Saito, M.; Okuda, A.; Okada, M.; Yamamoto, H.;
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Volume 1, 11-14 Sept. 2005 Page(s):286 - 290
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1. ARRANGEMENTS AND METHODS FOR A DIGITAL COMMUNICATION
JOHANSSON, Magnus (UPZIDE LABS AB), *PATENT COOPERATI*
Sep 2004
patno:WO04082230
...**alphabet** M, **scrambling** a bit stream...predefined **symbol alpl** defined...transmit **power level** of the dummy **data** is substantially the user **data**. The method...from the **symbol alphabet** Q in sync **scrambling** the received...means for **scrambling** the bit stream.. **alphabet** Q is defined...transmit **power level** of the dummy **data**
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2. Arrangements and methods for a digital communication system
Johansson, Magnus, *UNITED STATES PATENT AND TRADEMARK PUBLICATION*, Nov 2006
patno:US20060262873
...transmitter has to fill the **data** channel with dummy **data**. The **s power level** on the channel is approximately...constant regardless **data** or...is the size of the **symbol alphabet** which is equal to the
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3. ARRANGEMENTS AND METHODS FOR A DIGITAL COMMUNICATION
JOHANSSON, Magnus (UpZide Labs AB), *EUROPEAN PATENT*, D
patno:EP1604500
...**alphabet** M, **scrambling** a bit stream...predefined **symbol alpl** defined...transmit **power level** of the dummy **data** is substantially the user **data**. [0013]The...from the **symbol alphabet** Q in synch **scrambling** the received...means for **scrambling** the bit stream.. **alphabet** Q is defined...transmit **power level** of the dummy **data**
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...aim to provide enhanced voice, text and **data** services to the use give...aim to provide enhanced voice, text and **data** services to the give...25 2.2.4 **Scrambling**...35 2.15 Problem of **data** detection...
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Agazzi, Oscar E. / Creigh, John L. / Hatamian, Mehdi / Kruse Arthur / Samueli, Henry (Broadcom Corporation), *UNITED ST TRADEMARK OFFICE GRANTED PATENT*, Nov 2008
patno:US7453935
...shown in FIG. 2) and passes the digital **data** to the transmit sect

and is provided to ensure proper **data** transfer from the MAC layer 204T of the PCS block 204 performs **scrambling** and coding of the functions. Transmit...
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7. Multi-pair gigabit ethernet transceiver
Agazzi, Oscar E. / **Creigh, John L.** / **Hatamian, Mehdi** / **Kruse Arthur** / **Samueli, Henry**, *UNITED STATES PATENT AND TRADEM PUBLICATION*, Jun 2008
patno:US20080151988
...shown in FIG. 2) and passes the digital **data** to the transmit sect and is provided to ensure proper **data** transfer from the MAC layer 204T of the PCS block 204 performs **scrambling** and coding of the functions. Transmit...
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Agazzi, Oscar E. / **Creigh, John L.** / **Hatamian, Mehdi** / **Kruse Arthur** / **Samueli, Henry**, *UNITED STATES PATENT AND TRADEM PUBLICATION*, Feb 2008
patno:US20080049826
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FLOWS Deliverable Number: D4 Page 1 IST-2001-32125 FLOWS D Initial Propagation Models Contractual Date of Delivery to the CEC: of Delivery to the CEC: 31st May 2002 Author(s): Filipe D. Cardoso [http://www.elec.york.ac.uk/comms/projects/flows/delive...]
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...Convolutional Code PCH Paging CHannel PDU Protocol **Data** Unit PHYsical layer...Dedicated Control CHannel SDU Service **Data** Unit System Frame...SystemsU- User- UDD Unconstrained Delay **Data** Uplink (Reverse link...32 5.3.3 Channelisation codes 33 5.3.4 **Scra** CDMA uplink 34 5.4.1 Frame...
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ARRANGEMENTS AND METHODS FOR A DIGITAL COMMUNICATION SYSTEM

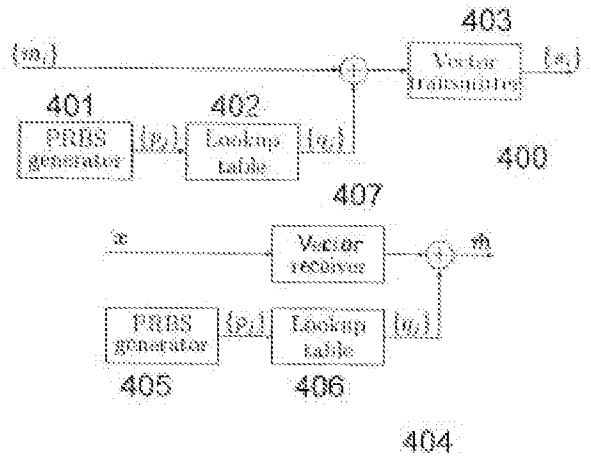
Publication number: WO2004082230 (A1)
Publication date: 2004-09-23
Inventor(s): JOHANSSON MAGNUS [SE]
Applicant(s): UPZIDE LABS AB [SE]; JOHANSSON MAGNUS [SE]
Classification:
- international: ***H04L25/03; H04L27/34;*** **H04L25/03; H04L27/34;** (IPC1-7): H04L25/03; H04L27/26
- European: H04L25/03E3; H04L27/34C1
Application number: WO2004SE00363 20040312
Priority number(s): SE20030000695 20030314; US20030454309P 20030314

Also published as:
EP1604500 (A1)
EP1604500 (B1)
AT379909 (T)

Cited documents:
EP1128623 (A1)
WO0176118 (A2)
EP1199858 (A2)
EP1248426 (A2)
US2002196861 (A1)

Abstract of **WO 2004082230 (A1)**

The present invention relates to methods, computer program products, a transmitter, a receiver and a transceiver comprising said transmitter and said receiver in a digital communication system for reducing the transmit power level when there is no user data is to send, i.e. when dummy data is sent instead. That is achieved by defining a symbol alphabet Q and scrambling a bit stream comprising user data and dummy data with randomly generated symbols from the symbol alphabet Q.



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11. Multi-pair gigabit ethernet transceiver
Agazzi, Oscar E. / Creigh, John L. / Hatamian, Mehdi / Kruse Arthur / Samueli, Henry (Broadcom Corporation), *UNITED ST TRADEMARK OFFICE GRANTED PATENT*, Dec 2007
patno:US7305029
...shown in FIG. 2) and passes the digital **data** to the transmit sect and is provided to ensure proper **data** transfer from the MAC layer 204T of the PCS block 204 performs **scrambling** and coding of the functions. Transmit...
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12. MULTI-PAIR GIGABIT ETHERNET TRANSCEIVER HAVING A SINGLE-FEEDBACK EQUALIZER
Agazzi, Oscar E. / Creigh, John L. / Hatamian, Mehdi / Kruse Arthur / Samueli, Henry, *UNITED STATES PATENT AND TRADEM PUBLICATION*, Oct 2007
patno:US20070242739
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13. Ethernet transceiver with single-state decision feedback equalizer
Agazzi, Oscar E. / Creigh, John L. / Hatamian, Mehdi / Samu E. / Abnous, Arthur (Broadcom Corporation), *UNITED STATES OFFICE GRANTED PATENT*, Aug 2007
patno:US7263134
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14. MULTI-PAIR GIGABIT ETHERNET TRANSCEIVER HAVING ADAPTIVE ELEMENTS
Agazzi, Oscar E. / Creigh, John L. / Hatamian, Mehdi / Kruse Arthur / Samueli, Henry, *UNITED STATES PATENT AND TRADEM PUBLICATION*, Aug 2007
patno:US20070183540
...shown in FIG. 2) and passes the digital **data** to the transmit sect and is provided to ensure proper **data** transfer from the MAC layer 204T of the PCS block 204 performs **scrambling** and coding of the functions. Transmit...
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15. MULTI-PAIR GIGABIT ETHERNET TRANSCEIVER HAVING DECISION
Agazzi, Oscar E. / Creigh, John L. / Hatamian, Mehdi / Kruse Arthur / Samueli, Henry, *UNITED STATES PATENT AND TRADEM PUBLICATION*, Aug 2007
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TELECOMMUNICATIONS SYSTEMS ENGN3214 Gerard G Borg Brick Engineering Faculty of Engineering and Information Technology Au Canberra, ACT 0200, Australia 2006 1 Modulation Schemes 1.1 Wh for transmission?
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Agazzi, Oscar E. / Creigh, John L. / Hatamian, Mehdi / Kruse Arthur / Samueli, Henry (Broadcom Corporation), *UNITED ST TRADEMARK OFFICE GRANTED PATENT*, Mar 2007
patno:US7197069
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19. Multi-Pair Gigabit Ethernet Transceiver having decision feedback ec
Agazzi, Oscar E. / Creigh, John L. / Hatamian, Mehdi / Samu E. / Abnous, Arthur (Broadcom Corporation), *UNITED STATES OFFICE GRANTED PATENT*, Mar 2007
patno:US7194028
...shown in FIG. 2) and passes the digital **data** to the transmit sect and is provided to ensure proper **data** transfer from the MAC layer 204T of the PCS block 204 performs **scrambling** and coding of the functions. Transmit...
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20. Multi-pair gigabit ethernet transceiver having adaptive disabling or
Agazzi, Oscar E. / Creigh, John L. / Hatamian, Mehdi / Kruse Arthur / Samueli, Henry (Broadcom Corporation), *UNITED ST TRADEMARK OFFICE GRANTED PATENT*, Mar 2007
patno:US7194029
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21. DECISION-FEEDBACK DECODING METHOD AND SYSTEM
AGAZZI, Oscar, E. / CREIGH, John, L. / HATAMIAN, Mehdi / ABNOUS, Arthur / SAMUELI, Henry (Broadcom Corporation)
2001
patno:EP1129553
...communication transceivers, even though the **data** rate on any c 250...primary necessity of accommodating high **data** rates with a s signal...representing the five levels of a PAM-5 **symbol alphabet**, 25 pre-computed...
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22. Systems and methods for communicating spread spectrum signals constellations
Dent, Paul W. (Ericsson Inc.), *UNITED STATES PATENT AND TR PATENT*, Aug 2005
patno:US6934317
...Likewise it is also possible to map the **data** pattern to a different approximately half...modulo-2 addition of one bit of a QPSK **scram** the bits and rotations...addition of the other bit of the QPSK **scram** of the bits. It...and after combination with the 16-PSK **data** symbo case...
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23. Authentication using a digital watermark
Rhoads, Geoffrey B., *UNITED STATES PATENT AND TRADEMARK PUBLICATION*, Feb 2004
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...systems. The first (termed, for lack of a better name, a "batch e identification coding to an existing **data** signal. The second (terme a "real time encoding" system), applies identification coding to a si
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24. Multi-pair gigabit ethernet transceiver
Agazzi, Oscar E. / Creigh, John L. / Hatamian, Mehdi / Samu E. / Abnous, Arthur, *UNITED STATES PATENT AND TRADEMARK PUBLICATION*, Feb 2005
patno:US20050036576
...shown in FIG. 2) and passes the digital **data** to the transmit sect and is provided to ensure proper **data** transfer from the MAC layer 204T of the PCS block 204 performs **scrambling** and coding of the functions. Transmit...
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Agazzi, Oscar E. / Creigh, John L. / Hatamian, Mehdi / Samu E. / Abnous, Arthur (Broadcom Corporation), *UNITED STATES OFFICE GRANTED PATENT*, Aug 2004
patno:US6778602
...shown in FIG. 2) and passes the digital **data** to the transmit sect and is provided to ensure proper **data** transfer from the MAC layer 204T of the PCS block 204 performs **scrambling** and coding of the

functions. Transmit...
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26. Multi-pair gigabit ethernet transceiver
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...shown in FIG. 2) and passes the digital **data** to the transmit sect and is provided to ensure proper **data** transfer from the MAC layer 204T of the PCS block 204 performs **scrambling** and coding of the functions. Transmit...
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patno:US6771725
...shown in FIG. 2) and passes the digital **data** to the transmit sect and is provided to ensure proper **data** transfer from the MAC layer 204T of the PCS block 204 performs **scrambling** and coding of the functions. Transmit...
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Agazzi, Oacar E. / Creigh, John L. / Hatamlan, Mehdi / Kruse Arthur / Samueli, Henry, *UNITED STATES PATENT AND TRADEM PUBLICATION*, May 2004
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...shown in FIG. 2) and passes the digital **data** to the transmit sect and is provided to ensure proper **data** transfer from the MAC layer 204T of the PCS block 204 performs **scrambling** and coding of the functions. Transmit...
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Agazzi, Oscar E. / Creigh, John L. / Hatamian, Mehdi / Samu E. / Abnous, Arthur (Broadcom Corp.), *UNITED STATES PATEN GRANTED PATENT*, May 2004
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Agazzi, Oscar E. / Creigh, John L. / Hatamian, Mehdi / Samu E. / Abnous, Arthur, *UNITED STATES PATENT AND TRADEMARK PUBLICATION*, Apr 2004
patno:US20040071242
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31. Multi-pair gigabit ethernet transceiver
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patno:US20040071243
...shown in FIG. 2) and passes the digital **data** to the transmit sect and is provided to ensure proper **data** transfer from the MAC layer 204T of the PCS block 204 performs **scrambling** and coding of the functions. Transmit...
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32. MULTI-PAIR GIGABIT ETHERNET TRANSCEIVER
AGAZZI, Oscar E. / CREIGH, John L. / HATAMIAN, Mehdi / K ABNOUS, Arthur / SAMUELI, Henry (BROADCOM CORPORATI Oscar, E. ; CREIGH, John, L. ; HATAMIAN, Mehdi ; KRUSE, Da Arthur ; SAMUELI, Henry), *PATENT COOPERATION TREATY APPL*
patno:WO00028691
...communication transceivers, even though the **data** rate on any c is"only"250Mbps...primary necessity of accommodating high **data** of signal...representing the five levels of a PAM-5 **symbol alphabe** of 25 pre-computed...
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33. Multi-pair gigabit ethernet transceiver
Agazzi, Oscar E. / Creigh, John L. / Hatamian, Mehdi / Kruse Arthur / Samueli, Henry, *UNITED STATES PATENT AND TRADEM PUBLICATION*, Jan 2003
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...shown in FIG. 2) and passes the digital **data** to the transmit sect and is provided to ensure proper **data** transfer from the MAC layer 204T of the PCS block 204 performs **scrambling** and coding of the functions. Transmit...
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34. Multi-pair gigabit ethernet transceiver
Agazzi, Oscar E. / Creigh, John L. / Hatamian, Mehdi / Samu E. / Abnous, Arthur, *UNITED STATES PATENT AND TRADEMARK PUBLICATION*, Jan 2003
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35. Multi-pair gigabit ethernet transceiver
Agazzi, Oscar E. / Creigh, John L. / Hatamian, Mehdi / Kruse Arthur / Samueli, Henry (Broadcom Corporation), *UNITED ST TRADEMARK OFFICE GRANTED PATENT*, Nov 2002
patno:US6477200
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and is provided to ensure proper **data** transfer from the MAC layer 204T of the PCS block 204 performs **scrambling** and coding of the functions. Transmit...
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☐ **36.** Multi-pair gigabit ethernet transceiver
Agazzi, Oscar E. / Creigh, John L. / Hatamian, Mehdi / Kruse Arthur / Samueli, Henry (Broadcom Corporation), *UNITED ST TRADEMARK OFFICE GRANTED PATENT*, Oct 2002
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...shown in FIG. 2) and passes the digital **data** to the transmit sect and is provided to ensure proper **data** transfer from the MAC layer 204T of the PCS block 204 performs **scrambling** and coding of the functions. Transmit...
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☐ **37.** Multi-pair gigabit ethernet transceiver
Agazzi, Oscar E. / Creigh, John L. / Hatamian, Mehdi / Samu E. / Abnous, Arthur, *UNITED STATES PATENT AND TRADEMARK PUBLICATION*, Sep 2002
patno:US20020122479
...shown in FIG. 2) and passes the digital **data** to the transmit sect and is provided to ensure proper **data** transfer from the MAC layer 204T of the PCS block 204 performs **scrambling** and coding of the functions. Transmit...
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☐ **38.** System and method for communication using noise
Pickering, Leslie W. / Aaron, Jeffrey A. (Georgia Tech Resea
STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Jun
patno:US6408019
...local interface such as, for example, a **data** bus 116. Although th shown...the A/D converter 129 available on the **data** bus 116. Not possible...comprises four binary digits, then the **symbol alphabet** symbols to represent...
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☐ **39.** Multi-pair gigabit ethernet transceiver
Agazzi, Oscar E. / Creigh, John L. / Hatamian, Mehdi / Kruse Arthur / Samueli, Henry (Broadcom Corporation), *UNITED ST TRADEMARK OFFICE PRE-GRANT PUBLICATION*, Dec 2001
patno:US20010055331
...shown in FIG. 2) and passes the digital **data** to the transmit sect and is provided to ensure proper **data** transfer from the MAC layer 204T of the PCS block 204 performs **scrambling** and coding of the functions. Transmit...
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10549449, filed 07/19/2006
is a national stage entry of PCT/SE04/00363 , International Filing Date: 03/12/2004
claims foreign priority to 60454309, filed 03/14/2003
claims foreign priority to 03006954, filed 03/14/2003

Child Data

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Assignments
Examiner Number: **80488 / TORRES, JUAN**
Filing or 371(c) Date: **07/19/2006** eDan
Group Art Unit: **2611** IFW Madras
Effective Date: **09/14/2005**
Class/Subclass: **375/269.000**
Application Received: **09/14/2005**
Lost Case: **NO**
Pat. Num./Pub. Num: **/20060262873**
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L&R Code: Secrecy Code:**1**
Attorney Docket Number: **1505-1028-1**
Third Level Review: **NO**
Secrecy Order: **NO**
Status: **30 /DOCKETED NEW CASE - READY FOR EXAMINATION**
Status Date: **10/17/2007**
Confirmation Number: **5502**
Oral Hearing: **NO**
Title of Invention: **ARRANGEMENTS AND METHODS FOR A DIGITAL COMMUNICATION SYSTEM**

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Inventor Information for 10/549449

Inventor Name	City	State/Country
JOHANSSON, MAGNUS	LULEA	SWEDEN

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Application#	Patent#	Status	Date Filed	Title	Inventor Name
06400116	4536004	150	07/19/1982	MOVABLE FOOT-STEP FOR A VEHICLE	JOHANSSON, MAGNUS
08553540	5649040	150	06/21/1996	SPLICING AGED OPTICAL FIBERS	JOHANSSON, MAGNUS
09147229	6625112	150	03/11/1999	SYNCHRONISATION	JOHANSSON, MAGNUS
09147230	6751261	150	02/09/1999	SYNCHRONISATION	JOHANSSON, MAGNUS
09147742	6438174	150	06/04/1999	MULTI-CARRIER TRANSMISSION SYSTEMS	JOHANSSON, MAGNUS
09147743	6456649	150	08/30/1999	MULTI-CARRIER TRANSMISSION SYSTEMS	JOHANSSON, MAGNUS
09147744	6320903	150	06/07/1999	MULTI-CARRIER TRANSMISSION SYSTEMS	JOHANSSON, MAGNUS
09147745	6538986	150	06/01/1999	CONTROL CHANNELS FOR TELECOMMUNICATIONS TRANSMISSION SYSTEMS	JOHANSSON, MAGNUS
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09426105	6470472	150	10/22/1999	ARRANGEMENTS AND METHOD RELATING TO TRANSMISSION OF DIGITAL DATA	JOHANSSON, MAGNUS
09446120	6731707	150	08/24/2000	ARRANGEMENT FOR SYNCHRONIZATION OF NODES IN VDSL-SYSTEMS	JOHANSSON, MAGNUS
09446357	7023907	150	03/09/2000	VDSL MODEM DIVIDED INTO A DIGITAL AND AN ANALOG PART	JOHANSSON, MAGNUS
09529427	7039020	150	11/01/2000	NEAR-ECHO SUPPRESSION	JOHANSSON, MAGNUS
09529429	Not Issued	161	10/30/2000	Digital transmission system and method using FDD and OFDD	JOHANSSON, MAGNUS
09530947	6738440	150	12/27/2000	SUBSCRIBER LINE TRANSMISSION SYSTEMS	JOHANSSON, MAGNUS
09555816	Not Issued	124	10/10/2000	Data scramblers	JOHANSSON, MAGNUS
09582637	7239687	150	10/20/2000	TELECOMMUNICATIONS	JOHANSSON, MAGNUS
09622523	7113549	150	12/07/2000	IMPROVEMENTS IN, OR RELATING TO, VDSL	JOHANSSON, MAGNUS
09647666	Not Issued	161	09/29/2000	Method and arrangement for reducing cyclo-stationary cross-talk noise	JOHANSSON, MAGNUS
09700617	7079610	150	03/22/2001	TELECOMMUNICATIONS TRANSMISSION SYSTEMS	JOHANSSON, MAGNUS
09700888	6606047	150	11/20/2000	METHODS AND APPARATUS FOR ESTIMATING CLIPPED SAMPLES DURING ANALOG TO DIGITAL CONVERSION	JOHANSSON, MAGNUS
09702891	6543205	150	11/01/2000	FORM AND SEAL UNIT FOR A MACHINE FOR PACKAGING POURABLE FOOD PRODUCTS	JOHANSSON, MAGNUS
09772944	6690953	150	01/31/2001	CALIBRATION METHOD FOR AN ADAPTIVE ANTENNA SYSTEM	JOHANSSON, MAGNUS
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09857498	6582947	150	06/19/2001	MEDICAL USE OF GENE AND VECTOR ENCODING A MULTISUBSTRATE DEOXYRIBONUCLEOSIDE	JOHANSSON, MAGNUS

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09914032	6460685	150	02/12/2002	CONVEYOR FOR GARMENT HANGERS	JOHANSSON, MAGNUS
10312393	6739822	150	12/26/2002	TRACTION VEHICLE FOR AIRCRAFT AND ENGAGEMENT AND HOISTING DEVICE THEREFOR	JOHANSSON, MAGNUS
10476897	Not Issued	164	05/10/2004	PYRIDINONE AND RELATED HETEROCYCLIC DERIVATIVES	JOHANSSON, MAGNUS
10549449	Not Issued	30	07/19/2006	Arrangements and methods for a digital communication system	JOHANSSON, MAGNUS
11149659	Not Issued	160	06/10/2005	Method and arrangement for reducing cyclo-stationary cross-talk noise	JOHANSSON, MAGNUS
11436014	7526021	150	05/17/2006	TELECOMMUNICATIONS TRANSMISSION SYSTEMS	JOHANSSON, MAGNUS
11928490	Not Issued	30	10/30/2007	FRAMEWORK FOR AUTOMATIC GENERATION OF SEQUENCE OF OPERATIONS	JOHANSSON, MAGNUS
11928542	Not Issued	30	10/30/2007	PROCESS FOR GENERATING CONTROL SEQUENCE OF OPERATIONS	JOHANSSON, MAGNUS
12111397	Not Issued	30	04/29/2008	ENGINE TORQUE CONTROL WITH DESIRED STATE ESTIMATION	JOHANSSON, MAGNUS
60454309	Not Issued	159	03/14/2003	Arrangements and methods for a digital communication system	JOHANSSON, MAGNUS
61025896	Not Issued	159	02/04/2008	Method and Arrangement in a Telecommunication System	JOHANSSON, MAGNUS
60983297	Not Issued	159	10/29/2007	METHOD AND ARRANGEMENT IN A TELECOMMUNICATIONS SYSTEMS	JOHANSSON, MAGNUS B.
60984890	Not Issued	159	11/02/2007	ENGINE TORQUE CONTROL WITH DESIRED STATE ESTIMATION	JOHANSSON, MAGNUS CG

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